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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/079,845	02/22/2002	Shunji Arai	00862.022527	7541

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FITZPATRICK CELLA HARPER & SCINTO
30 ROCKEFELLER PLAZA
NEW YORK, NY 10112

EXAMINER	
PHU, SANH D	

ART UNIT	PAPER NUMBER
2682	

DATE MAILED: 05/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/079,845	ARAI, SHUNJI	
	Examiner	Art Unit	
	Sanh D Phu	2682	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *07 March 2005*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-14* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-14* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

1. This Office Action is responsive to the Amendment filed on 03/7/2005.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tayloe et al (5,095,500) in view of Nilsen et al (5,987,306) newly-cited.

Regarding to claims 1, 12, 13, see figure 1, and col. 3, line 17 to col. 6, line 40, Tayloe et al discloses a radio communication system having a plurality of terminals terminal (100) and a base station (106, 116), wherein each of the terminals comprises comprising:

a reception status detector (inherently included in (100)) for detecting a reception status (signal stregngth, signal quality, etc.) of a signal received from said base station (see col. 4, lines 8-11); and

a notification unit (inherently included in (100)) for notifying said base station of the reception status detected by said reception status detector (see col. 4, lines lines 8-11), he does not specifically disclose wherein the base station comprises:

a connection unit for initiating an attempt to connect to said plurality of terminals from the base station; and

a display control unit for displaying on a display unit for terminals in which a connection initiated by said connection unit is not made, an information about the unconnected terminals, and for displaying on a display unit, for terminals in which a connection initialized by said connection unit is made, information about the connected terminals and the reception status notified from said notification unit of the connected terminals.

Nilson et al disclose wherein the base station comprises:

a connection unit for initiating an attempt to connect to said plurality of terminals from the base station (see Fig. 7A-7D, col. 2, lines 12-35, col. 15, line 19 to col. 16, line 59) ; and

a display control unit for displaying on a display unit for terminals in which a connection initiated by said connection unit is not made, an information about the unconnected terminals, and for displaying on a display unit, for terminals in which a connection initialized by said connection unit is made, information about the connected terminals and the reception status notified from said notification unit of the connected terminals (see Fig. 7A-7D, col. 2, lines 12-35, col. 15, line 19 to col. 16, line 59).

Therefore, it would have been obvious for one skilled in the art to implement the Base station with the display unit, as taught by Nilson et al, in order to have a statistic map so that the operator at the control center knows and able to evaluate the performance of the wireless network.

Regarding to claim 2, Tayloe et al discloses that said terminals detect at least one of a received signal strength and a reception data error rate, as the

reception status of the signal received from said base station (see (see col. 4, lines 8-11).

Regarding to claim 3, Tayloe et al discloses that wherein the signal received from said base station is a signal obtained upon radio connection between said base station and said terminals (see figure 1).

Regarding to claim 4, Tayloe et al discloses that said base station issues a reception status notification request during the radio connection with said terminals (by sending signals to said terminals for measuring signal strength and signal quality based on said signals (see col. 4, lines 8-11); and when said terminals receive the reception status notification request from said base station, said notification unit of said terminals notifies said base station of the reception status in response to the reception status notification request (by reporting results of the measurement to said base station (see col. 4, lines 8-11).

Regarding to claim 5, Tayloe et al discloses that the signal received from said base station is a notification signal which is always transmitted from said base station and based on which said reception status is obtained (see col. 4,

lines 8-10); said terminals inherently have a storage device for capturing, namely, storing, the reception status before being able to send back the reception status to the base station; and said reception status detector detects the reception status upon reception of the notification signal and notifies said base station of the reception status (see col. 4, lines 8-11).

Regarding to claim 6, Tayloe et al discloses that said base station: has a storage device (inherently included) for storing the reception status notified from said terminals (for collecting and comparing values of said reception status (see col. 4, lines 33-36)), with linkage to terminal identification information (location) of said terminals (see col. 3, lines 46-50, 55-59); and displays the reception status and the terminal identification information stored in said storage device, linked to each other, on said display unit (see col. 4, lines 38-40, col. 5, lines 17-52).

Regarding to claim 7, Tayloe et al discloses that said base station: has an extractor (inherently included in (106, 116) for extracting the worst reception status (degraded services) among reception statuses and the terminal identification information (locations of the respective terminals) of the

reception status stored in said storage device; and displays the worst reception status and the terminal identification information extracted by said extractor on said display unit (see figure 4, and col. 5, lines 17-52, and col. 6, lines 63 to col. 7, line 3).

Regarding to claim 8, Tayloe et al discloses that if radio connection cannot be established with said a terminal (indicated by measured bit-error rates), said base station displays the terminal identification information (location) of said that terminal on said display unit (see figure 4).

Regarding to claim 9, Tayloe et al discloses that said base station has a register (inherently included in (106, 116) for registering and tracking locations of said plurality of terminals by receiving communication message signals from the respective terminals (see col. 3, lines 40-43); and said base station performs call origination, issuance of the reception status notification request, and reception of the reception status, on said terminals registered in said register in sequence, repeatedly (see col. 4, lines 8-40).

Regarding to claim 10, Tayloe et al discloses that wherein said base station has an interface for connection with said display unit (see figure 1).

Regarding to claim 11, Tayloe et al discloses that said base station and said terminal terminals is a digital cordless phone system (see figure 1, and col. 3, lines 25-33).

Regarding to claim 14, Tayloe et al discloses that said display controller displays an identification information (locations) about the terminals that could be connected (indicated by good bit error rates) and could not be connected by said radio unit (indicated by bad bit error rates), and the reception status (bit error rates) on the display (see figure 4, and col. 5, lines 40-51 and col. 6, line 62 to col. 7, line 3).

Response to Arguments

4. Applicant's arguments with respect to claims 1-14 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sanh D Phu whose telephone number is (703)305-8635. The examiner can normally be reached on 8:00-16:30.

VIVIAN CHIN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600